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=> s carvedilol?
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13 CARVEDILOL?

=> d 11 1-13

ANSWER 1 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN L1

787598-91-8 REGISTRY RN

ED

Entered STN: 24 Nov 2004

Benzoic acid, 2-hydroxy-, compd. with 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-2-propanol (1:1) (9CI) (CA INDEX NAME) CN

OTHER NAMES:

CNCarvedilol salicylate

C24 H26 N2 O4 . C7 H6 O3 MF

SR

STN Files: CA, CAPLUS LC

> CM 1

CRN 72956-09-3 CMF C24 H26 N2 O4

PAGE 1-A

PAGE 2-A

CM 2

CRN 69-72-7 CMF C7 H6 O3

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN

RN 787598-89-4 REGISTRY

ED Entered STN: 24 Nov 2004

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-, ethanedioate (1:1) (salt) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Carvedilol oxalate

MF C24 H26 N2 O4 . C2 H2 O4

SR CA

LC STN Files: CA, CAPLUS, CASREACT

CM 1

CRN 72956-09-3 CMF C24 H26 N2 O4

PAGE 1-A

CM 2

CRN 144-62-7 CMF C2 H2 O4

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 3 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN

RN 610309-89-2 REGISTRY

ED Entered STN: 29 Oct 2003

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-, phosphate (salt), hydrate (2:2:1) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Carvedilol phosphate

CN SKF 105517D

MF C24 H26 N2 O4 . H3 O4 P . 1/2 H2 O

SR CAS Client Services

LC STN Files: ADISINSIGHT, CA, CAPLUS

CM 1

CRN 72956-09-3 CMF C24 H26 N2 O4

CM 2

CRN 7664-38-2 CMF H3 O4 P

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L1 ANSWER 4 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 142227-51-8 REGISTRY
- ED Entered STN: 03 Jul 1992
- CN Phenol, 3-[2-[[3-(9H-carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-4-methoxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

```
CN 5'-Hydroxyphenylcarvedilol
CN 5-Hydroxycarvedilol
CN BM 140830
```

FS 3D CONCORD DR 146601-40-3

MF C24 H26 N2 O5

CI COM

SR CA

LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN

RN 142227-49-4 REGISTRY

ED Entered STN: 03 Jul 1992

Phenol, 4-[2-[[3-(9H-carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-3-methoxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4'-Hydroxyphenylcarvedilol

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CN 4-Hydroxycarvedilol
```

CN BM 140686

CN BM 14686

FS 3D CONCORD

DR 146574-45-0

MF C24 H26 N2 O5

CI COM

SR CA

LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN

RN 123372-14-5 REGISTRY

ED Entered STN: 27 Oct 1989

CN Phenol, 2-[2-[[3-(9H-carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-, (R)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (R)-(+)-O-Desmethylcarvedilol

FS STEREOSEARCH

MF C23 H24 N2 O4

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN

RN 123372-13-4 REGISTRY

ED Entered STN: 27 Oct 1989

CN Phenol, 2-[2-[[3-(9H-carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-, (S)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (S)-(-)-O-Desmethylcarvedilol

FS STEREOSEARCH

MF C23 H24 N2 O4

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 8 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN

RN 114869-83-9 REGISTRY

ED Entered STN: 18 Jun 1988

CN β -D-Glucopyranosiduronic acid, 2-(9H-carbazol-4-yloxy)-1-[[[2-(2-methoxyphenoxy)ethyl]amino]methyl]ethyl (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Carvedilol glucuronide

FS STEREOSEARCH

MF C30 H34 N2 O10

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 4 REFERENCES IN FILE CA (1907 TO DATE)
- 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L1 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 95094-00-1 REGISTRY
- ED Entered STN: 03 Mar 1985
- CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-, (S)-

OTHER NAMES:

- CN (-)-Carvedilol
- CN (S)-(-)-Carvedilol
- CN (S)-1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]propan-2-ol
- CN (S)-Carvedilol
- FS STEREOSEARCH
- MF C24 H26 N2 O4
- CI COM
- LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IMSPATENTS, IMSRESEARCH, IPA, TOXCENTER,

USPAT2, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 63 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 63 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L1 ANSWER 10 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 95093-99-5 REGISTRY
- ED Entered STN: 03 Mar 1985

OTHER CA INDEX NAMES:

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-, (R)-

OTHER NAMES:

- CN (+)-Carvedilol
- CN (R)-1-(9H-carbazol-4-yloxy)-3-[[2-[2-(methoxy)phenoxy]ethyl]amino]propan-2-ol
- CN (R)-Carvedilol
- CN R-(+)-Carvedilol
- FS STEREOSEARCH
- MF C24 H26 N2 O4
- LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IMSPATENTS, IMSRESEARCH, IPA, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 63 REFERENCES IN FILE CA (1907 TO DATE)
- 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 63 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L1 ANSWER 11 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 72956-44-6 REGISTRY
- ED Entered STN: 16 Nov 1984
- CN Phenol, 2-[2-[[3-(9H-carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-(9CI) (CA INDEX NAME)

OTHER NAMES:

- CN BM 14242
- CN Desmethylcarvedilol
- FS 3D CONCORD
- MF C23 H24 N2 O4
- CI COM
- LC STN Files: BEILSTEIN*, BIOBUSINESS, CA, CAPLUS, CHEMCATS, CSCHEM, IPA, MEDLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19 REFERENCES IN FILE CA (1907 TO DATE)

19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L1 ANSWER 12 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN
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RN 72956-09-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN (±)-Carvedilol

CN Artist

CN BM 14190

CN Carvedilol

CN Carvediol

CN Coreg

CN Dilatrend

CN Dimitone

CN DQ 2466

CN Eucardic

CN Kredex

CN Querto

CN SKF 105517

FS 3D CONCORD

DR 107741-96-8

MF C24 H26 N2 O4

CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CEN,
CHEMCATS, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*,
IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*,
PATDPASPC, PHAR, PROMT, PROUSDDR, PS, RTECS*, SYNTHLINE, TOXCENTER,
USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)
Other Sources: WHO

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1043 REFERENCES IN FILE CA (1907 TO DATE)

23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1053 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 13 OF 13 REGISTRY COPYRIGHT 2005 ACS on STN RN 72955-94-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl](phenylmethyl)amino]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN N-Benzylcarvedilol

FS 3D CONCORD

MF C31 H32 N2 O4

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMLIST, USPAT7ULL (*File contains numerically searchable property data)

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 13 and HCl?

591366 HCL?

L4 6 L3 AND HCL?

=> s 13 and ?hydrat?

588000 ?HYDRAT?

L5 28 L3 AND ?HYDRAT?

=> d l4 1-6 ibib abs hitstr

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2

2005:300196 CAPLUS

DOCUMENT NUMBER:

142:355575

TITLE:

Preparation of nitrosated glutamic acid compounds for

use in pharmaceutical compositions

INVENTOR(S):

Garvey, David S.; Earl, Richard A.; Ezawa, Maiko;
Fang, Xinqin; Gaston, Ricky D.; Khanapure, Subhash P.;
Lin, Chia-en; Ranatunge, Ramani R.; Stevenson, Cheri

A.; Wey, Shiow-jyi

PATENT ASSIGNEE(S):

Nitromed, Inc., USA PCT Int. Appl., 151 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

GI

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIND DATE		APPLICATION NO.						DATE			
	- 				-								-			
WO 20	05030	L35		A2		2005	0407	1	WO 2	004-1	US31.	372		20	0040	927
W	V: AE	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	ΒA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
	CN	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GH,														
		LR,														
	NO	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TM,														
R	RW: BW															
		BY,														
		ES,														
	SI	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,
	SN	TD,	TG													
PRIORITY A	APPLN.	INFO	.:					Ţ	JS 2	003-	5059	21P]	2 20	00309	926

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The invention describes novel nitrosated glutamic acid compds.

RbNHCH(CH2CH2CO-K)CO-U3-D [Rb is H or alkyl; D is H, V3 or K (V3 is H or NO2); U3 is O, S(O)0-2 or NRaRi, where Ra is a lone pair of electrons, H or alkyl and Ri is H, alkyl, aryl, a carboxylic acid or ester, alkylsulfinyl, etc.; K is -W3a-Eb-(CReRf)p1-Ec-(CReRf)x-W3d-(CReRf)y-W3i-

Ej-W3g-(CReRf)z-T3-V3, where a, b, c, d, g, i and j are independently integers 0-3; pl, x, y and z are independently integers 0-10; W3 is CO, CS, T3, (CReRf)1-10, alkyl, aryl, heterocyclyl, arylheterocyclyl or (CH2CH2O)0-5; E is T3, alkyl, aryl, (CReRf)1-10, heterocyclyl, arylheterocyclyl or (CH2CH2O)1-5; T3 is a covalent bond, CO, O, S, SO, SO2 or NRaRi; Re, Rf are independently H, alkyl, cycloalkoxy, halo, hydroxy, hydroxyalkyl, alkoxyalkyl, arylheterocyclyl, alkylaryl, etc.] and their pharmaceutically-acceptable salts and novel compns. comprising at least one nitrosated glutamic acid compound and optionally at least one nitric oxide donor and/or at least one therapeutic agent. The invention also provides methods for treating various diseases and for targeted delivery of compds. and nitric oxide to organs, cells or tissues containing the enzyme γ -glutamyl transpeptidase. Thus, nitrosated glutamic acid ester I. HCl was prepared by esterification of Boc-L-Glu-OBu-t (Boc = tert-butoxycarbonyl) with isosorbide-5-mononitrate (DMAP/EDAC in CH2Cl2) and deprotection.

IT **72956-09-3**, Carvedilol

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of nitrosated glutamic acid compds. for use in pharmaceutical compns.)

RN 72956-09-3 CAPLUS

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-(9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:931185 CAPLUS

DOCUMENT NUMBER: 140:744

TITLE: 5-HT4 receptor antagonists for the treatment of heart

failure

INVENTOR(S): Levy, Finn Olav

PATENT ASSIGNEE(S): Medinnova SF, Norway; Dzieglewska, Hanna

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: Eng: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.					KIND DATE			APPLICATION NO.									
WO	2003	0970	 65		A1	•	2003	1127	Ī							0030	
	W :	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NI,	NO,	NZ,	OM,
		PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,
		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
CA	2485	600			AA		2003	1127	(CA 20	003-2	2485	600		2	0030	516
EP	1503	764			A1		2005	0209]	EP 20	003-	7254	15		2	0030	516
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
PRIORITY	APP:	LN.	INFO	.:					(GB 20	002-	1123	0	i	A 2	0020	516
									1	WO 20	003-0	GB21:	34	1	W 2	0030	516

AB This invention provides the use of a 5-HT4 receptor antagonist in the manufacture of a medicament for treating or preventing heart failure. Particular heart disorders to be treated are selected from the group comprising chronic heart failure, congestive heart failure, chronic congestive heart failure and heart failure resulting from ischemic heart disease. Methods of treating heart failure using 5-HT4 receptor antagonists and pharmaceutical compns. containing 5-HT4 receptor antagonists are also provided. Treatment of post-infarction congestive heart failure in rats with 5-HT4 receptor antagonist SB207266 showed a trend towards normalization of myocardial function.

IT **72956-09-3**, Carvedilol

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (capsules containing SB207266 HCl and; 5-HT4 receptor antagonists
 for treatment of heart failure)

RN 72956-09-3 CAPLUS

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-(9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

7

ACCESSION NUMBER:

2003:319257 CAPLUS

DOCUMENT NUMBER:

138:343856

TITLE:

Buccal sprays or capsules containing cardiovascular or

renal drugs

INVENTOR(S):

Dugger, Harry A.

PATENT ASSIGNEE(S):

USA

16

SOURCE:

U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S.

Ser. No. 537,118.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:
FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003077229	A1	20030424	US 2002-230075	20020829
WO 9916417	A1	19990408	WO 1997-US17899	19971001
W: AL, AM, AT,	AU, AZ,	BA, BB, BG	, BR, BY, CA, CH, CN,	CU, CZ, DE,
DK, EE, ES,	FI, GB,	GE, GH, HU	, IL, IS, JP, KE, KG.	KP. KR. KZ.

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LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,
             UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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     EP 1029536
                                20000823
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                          A1
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     EP 1036561
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                                            EP 2000-109357
                                                                    19971001
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             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     WO 2004019909
                          A2
                                20040311
                                            WO 2003-US26853
                                                                    20030827
     WO 2004019909
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                                20040708
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2005025713
                                20050203
                                            US 2004-928979
                          Α1
                                                                    20040827
PRIORITY APPLN. INFO.:
                                            WO 1997-US17899
                                                                 A2 19971001
                                            US 2000-537118
                                                                 A2 20000329
                                            EP 1997-911621
                                                                 A3 19971001
                                            US 2002-230075
                                                                 A 20020829
     Buccal aerosol sprays or capsules using polar and non-polar solvent have
AΒ
     now been developed which provide biol. active compds. for rapid absorption
     through the oral mucosa, resulting in fast onset of effect. The buccal
     polar compns. of the invention comprise formulation A: aqueous polar solvent,
     active compound, and optional flavoring agent; formulation B: aqueous polar
     solvent, active compound, optionally flavoring agent, and propellant;
     formulation C: non-polar solvent, active compound, and optional flavoring
     agent; and formulation D: non-polar solvent, active compound, optional
     flavoring agent, and propellant. Thus, a polar lingual spray contained
     isoproterenol-HCl 0.5-6, water 50-75, EtOH 5-10, PEG 5-15,
     sorbitol 0.4-1.0, aspartame 0.04-0.1, and flavors 2-3%.
IT
     72956-09-3, Carvedilol
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (buccal sprays or capsules containing cardiovascular or renal drugs)
RN
     72956-09-3 CAPLUS
     2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-
CN
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(9CI) (CA INDEX NAME)

L4ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

9

ACCESSION NUMBER: 2002:755212 CAPLUS

DOCUMENT NUMBER: 137:279361

TITLE: Preparation of nitrosated and nitrosylated

 α -adrenergic receptor antagonists for the

treatment of sexual dysfunction

INVENTOR(S): Garvey, David S.; Saenz De Tejada, Inigo; Gaston,

Ricky D.; Khanapure, Subhash P.; Shelekhin, Tatiana

E.; Wang, Tiansheng

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 61 pp., Cont.-in-part of U.S.

6,294,517.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE:

English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

> PATENT NO. KIND DATE APPLICATION NO. DATE -----_ _ _ _ **---**-20020516 US 2002143007 A1 20021003 US 2002-146671 A A US 5932538 19990803 US 1996-595732 19960202 US 5994294 19991130 US 1996-714313 19960918

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US 6294517
                          B1
                                20010925
                                            US 1998-145143
                                                                    19980901
PRIORITY APPLN. INFO.:
                                            US 1996-595732
                                                                 À2 19960202
                                            US 1996-714313
                                                                A2 19960918
                                            US 1998-145143
                                                                A2 19980901
                                            WO 1997-US1294
                                                                A2 19970128
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OTHER SOURCE(S): MARPAT 137:279361

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I, II, III, etc. [R1 = H, alkoxy; R2 = NMe(CH2)aNHCORc, AB 6,7-dimethoxy-1,2,3,4-tetrahydroisoquinolin-2-yl, etc.; a= 2, 3; Rc = heterocyclic, alkyl, hydroxyalkyl, etc.; D = NO, NO2, etc.; R3 = CH2N(4-MeC6H4)(3-DOC6H4), CH2Ph, 2-methoxy-1,4-benzodioxin-2-yl, etc.; D1 = H or D with the proviso that D1 must be D if there is no other D in the compound; R4 = H, D, CORd; R5 = H, C(O)ORk, etc.; Rd = H, alkyl, cycloalkyl, etc.; Rk = H, alkyl] were prepared For example, nitrosylation of thiol IV (X = H), e.g., prepared from 4-[2-(dimethylamino)ethoxy]-2-methyl-5-(methylethyl) phenyl acetate in 3-steps, with NaNO2/HCl afforded IV.HCL (X = NO) in 82% yield. Compds. I, II, III, etc., donate, transfer or release nitric oxide or elevate levels of endogenous endothelium-derived relaxing factor, and are useful for treatment of sexual dysfunctions in males and females. In erectile response of anesthetized rabbits (2.5 kg), S-nitrosoglutathione, e.g., prepared from glutathione and NaNO2/HCl, at 500 μg dosage was able to induce near maximal response relative to the standard dose of pap/phent/PGE1. IT 72956-09-3D, Carvedilol, nitrated or nitrosylated derivs. RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of nitrosated and nitrosylated α -adrenergic receptor

antagonists for the treatment of sexual dysfunction)

RN 72956-09-3 CAPLUS

2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-CN (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:392232 CAPLUS

DOCUMENT NUMBER: 136:401912

TITLE: Nitrosated and nitrosylated alpha-adrenergic receptor

antagonist compounds, compositions and their uses

INVENTOR(S): Garvey, David S.; Schroeder, Joseph D.; Saenz de

Tejada, Inigo

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 40 pp., Cont.-in-part of U.S.

Ser. No. 714,313.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002061879	A1	20020523	US 2001-24550	20011221
US 5932538	Α	19990803	US 1996-595732	19960202
US 5994294	Α	19991130	US 1996-714313	19960918
PRIORITY APPLN. INFO.:			US 1996-595732	A2 19960202
			US 1996-714313	A2 19960918

OTHER SOURCE(S): MARPAT 136:401912

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AR The present invention is directed to nitrosated or nitrosylated a-adrenergic receptor antagonists, e.g. I [Ra = H, alkoxy; Rb = NMe(CH2)aNHCORc, 6,7-dimethoxy-1,2,3,4-tetrahydroisoguinolin-2-yl; a= 2, 3; Rc = heteroaryl, heterocycle, lower alkyl, hydroxyalkyl, arylheterocycle; D = NO, NO2, C(Rd)OC(O)YZ(CReRf)pTQ; Rd = H, lower alkyl, cycloalkyl, aryl aralkyl, heteroaryl; Y = O, S, C, NRi; Ri = H, lower alkyl; Re, Rf = H, lower alkyl, haloalkyl, cycloalkyl, alkoxy, aryl, heteroaryl, NH2, (di)alkylamino, amido, CO2H, ester, TQ; ReRf = carbonyl, heterocycle, cycloalkyl; p = 1 - 10; T = bond, O, S, N; Z = bond, lower alkyl, haloalkyl, cycloalkyl, aryl, (CReRf)p, Q = NO, NO2], II [R = CH2N(C6H4Me-4)C6H4OD1-3, CH2Ph, 2-methoxy-1,4-benzodioxin-2-yl, 1-methyl-2,3-dihydroisoindol-2-yl, 5-chloro-2,3-dihydroisoindol-2-yl; D1 = H, D], III [Rh = H, C(0)ORd, C(0)X; X = Y(CReRf)pG(CReRf)pTQ; G = bond, TC(0), C(0)T, $C\{YC(0)Rm\}$; Rm = heteroaryl, heterocycle, IV [A1 = 0, CH2], V, (RmRkC)N(D1)(CRkR1) [Rk = H, lower alkly; Rl = CH2C6H4O(CH2)bMe, CH2C6H4OD, CH2OC6H3(OMe)2-2,6, CH2CH2Ph; b = 0, 1; Rn = CH2C6H4(SO2NH2)-3, 1-oxotetralin-2-yl, 1,4-benzodioxin-2-yl and RpRkCHCH(Ro)OD [Ro = (1-naphthyloxy) methyl, C6H4OD1; Rp = 4-benzylpiperidino,

4-(2-methoxyphenyl)piperazino]. The present invention is also directed to compns. comprising α -adrenergic receptor antagonists that are optionally substituted with at least one NO or NO2 moiety and compds. that donate, transfer or release nitric oxide or elevate levels of endogenous endothelium-derived relaxing factor, and methods for treating sexual dysfunctions in males and females. Thus, S-Nitrosoglutathione was prepared from glutathione via reaction with NaNO2 in aqueous HCl. S-Nitrosoglutathione at 500 μg was able to induce near maximal erectile response in anesthetized rabbits.

IT 72956-09-3D, Carvedilol, nitrosated or nitrosylated RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

> (preparation of nitrosated and nitrosylated alpha-adrenergic receptor antagonist compds., compns. and their uses)

RN

72956-09-3 CAPLUS 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-CN (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

MeC

ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1993:656532 CAPLUS

DOCUMENT NUMBER:

119:256532

TITLE:

Topical antiglaucoma compositions comprising carbonic

anhydrase inhibitors and beta-blockers

Dean, Thomas Robert; Desantis, Louis, Jr.

PATENT ASSIGNEE(S): Alcon Laboratories, Inc., USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

INVENTOR (S):

PATENT NO.				APPLICATION NO.	DATE
WO 9316	5701 5701	A A	.2 1993090 .3 1994010		19930219
	AU, CA, : AT, BE,	•		, GB, GR, IE, IT, LU	. MC. NI. PT. SE
				3 AU 1993-37257	
			2 1997050		19930219
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R:	AT, BE,	CH, DE	, DK, ES, FR	, GB, GR, IE, IT, LI	, LU, MC, NL, PT, SE
			2 1995060		19930219
JP 2965	5267	В	2 1999101	8	
CA 2129	9037	C	1998032	4 CA 1993-2129037	19930219
				5 AT 1993-906084	19930219
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US 5932			1999080		19970827
HK 1009			1 2000042	0 HK 1998-110893	19980924
PRIORITY API	PLN. INFO	.:		US 1992-839869	. A 19920221
				JP 1993-514967	A3 19930219
				WO 1993-US1487	
				US 1993-115970	B1 19930901
OFFICE GOLVE OF	- (-)				B1 19950911

OTHER SOURCE(S): MARPAT 119:256532

AB Ophthalmic pharmaceutical compns. useful in controlling elevated intraocular pressure associated with glaucoma comprise a combination of a β -blocker and a carbonic anhydrase inhibitor (especially a

thiophenesulfonamide derivative) to reduce the production of aqueous humor, preferably

formulated as a suspension having a pH of 6.8-7.8. The composition may addnl. contain a mucomimetic anionic polymer and/or a finely divided drug carrier to provide sustained release. Thus, an ophthalmic suspension (pH 7.5) contained betaxolol-HCl 0.28, (R)-3,4-dihydro-4-ethylamino-2-(3-methoxy)propyl-2H-thieno[3,2-e]-1,2-thiazine-6-sulfonamide 1,1-dioxide-HCl 1.7, benzalkonium chloride 0.01, EDTA 0.05, Carbopol 934P 0.4, polysorbate 80 0.05 weight%, mannitol to 300 milliosmolal, and water.

IT **72956-09-3**, Carvedilol

RL: BIOL (Biological study)

(glaucoma treatment with carbonic anhydrase inhibitor and)

RN 72956-09-3 CAPLUS

CN 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-(9CI) (CA INDEX NAME)